

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Attorney Docket No.: **Flarion-48APP (84)**

Applicants: **Hui JIN et al.**

Serial No.: **Not yet assigned**

Filing Date: **Herewith**

Title: **METHODS AND APPARATUS FOR ENCODING LDPC CODES**

Examiner: **Not yet assigned**

Group Art Unit: **Not yet assigned**

Mail Stop Utility Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

Information Disclosure Statement Transmittal

The applicants respectfully request that the references listed on the attached PTO/SB/08A be considered in the examination of the above-identified application. A copy of each of these references is enclosed.

The applicants reserve the right to establish that any of the references listed on the attached PTO/SB/08A are not prior art to the above-captioned application.

Respectfully submitted,

Dated: July 11, 2003

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*****EXPRESS MAIL CERTIFICATION*****

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Mail Stop Utility Patent Application, Assistant Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. Department of Commerce Patent and Trademark Office		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number:	Not yet assigned
		Filing Date:	Herewith
		First Named Inventor:	Hui Jin
		Group Art Unit:	Not yet assigned
		Examiner Name:	Not yet assigned
Sheet	2	of	2
		Attorney Docket No.:	Flarion-48APP (84)

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	T ²
	AK	Richardson et al. The capacity of low-density parity-check codes under message-passing Decoding, IEEE Transactions on Information Theory; pages: 599-618, February 2001, (same inventor) whole document.	
	AL	Paranchych et al. Performance of a digital symbol synchronizer in cochannel interference and noise, IEEE Transactions on Communications, pages: 1945-1954; Nov. 2000, whole document.	
	AM	NN77112415. Digital Encoding of Wide Range Dynamic Analog Signals, IBM Tech. Disclosure Bulletin, November 1, 1997, VOL. No. 20; ISSUE No. 6; Pages 2415-2417, whole document	
	AN	NN9210335. Hierarchical Coded Modulation of Data with Fast Decaying Probability Distributions, IBM Tech. Disclosure Bulletin, October 1992, VOL. No. 35; ISSUE No. 5; Pages 335-336, whole document.	
	AO	Sorokine, V. et al. Innovative coding scheme for spread-spectrum communications, The Ninth IEEE International Symposium on Indoor and Mobile Radio Communications, pages: 1491-1495, Vol. 3; September 1998, whole document.	
	AP	T. Moors and M. Veeraraghavan, "Preliminary specification and explanation of Zing: An end-to-end protocol for transporting bulk data over optical circuits", pp. 1-55 (May 2001).	
	AQ	T. Richardson and R. Urbanke, "The Capacity of Low-Density Parity-Check Codes under Message-Passing Decoding", pp. 1-44 (March 2001).	
	AR	T. Richardson, A. Shokrollahi, R. Urbanke, "Design of Capacity-Approaching Irregular Low-Density Parity-Check Codes", pp. 1-43 (March 2001).	
	AS	T. Richardson and R. Urbanke, "An Introduction to the Analysis of Iterative Coding Systems", pp. 1-36.	
	AT	Saied Hemati, Amir H. Banihashemi, VLSI circuits: Iterative decoding in analog CMOS, Proceedings of the 13 th ACM Great Lakes Symposium on VLSI April 2003, Pages:15-20.	
	AU	Mohammad M. Mansour, Naresh R. Shanbhag, Session 11: Low-power VLSI decoder architectures for LDPC codes, Proceedings of the 2002 international symposium on Low power electronics and design August 2002, Pages: 284-289.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 Applicant is to place a check mark here if English language translation is attached.

(modified PTO/SB/08A)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			U.S. Department of Commerce Patent and Trademark Office		<i>Complete if Known</i>	
			Application Number: Not yet assigned Filing Date: Herewith First Named Inventor: Hui Jin Group Art Unit: Not yet assigned Examiner Name: Not yet assigned			
Sheet	1	of	2	Attorney Docket No.: Flarion-48APP (84)		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where relevant Passages or Figures appear
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	AB	3,665,396	05-23-1972	FORNEY, JR.	
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	AJ	6,473,010	10-29-2002	VITAYEV et al.	

Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner Signature		Date Considered	
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1 Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.